Antti J Karttunen

List of Publications by Year
in descending order

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208	4,080	126708	197535
papers	citations	33 h-index	49 g-index

232	232	232	3743
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Modulation of Metallophilic Bonds: Solvent-Induced Isomerization and Luminescence Vapochromism of a Polymorphic Auâ€“Cu Cluster. Journal of the American Chemical Society, 2012, 134, 6564-6567.	6.6	135
2	Structural Principles of Semiconducting Group 14 Clathrate Frameworks. Inorganic Chemistry, 2011, 50, 1733-1742.	1.9	122
3	Icosahedral Au₇₂: a predicted chiral and spherically aromatic golden fullerene. Chemical Communications, 2008, , 465-467.	2.2	109
4	Halogen Bonding to Amplify Luminescence: A Case Study Using a Platinum Cyclometalated Complex. Angewandte Chemie - International Edition, 2015, 54, 14057-14060.	7.2	98
5	Supramolecular Luminescent Gold(I)â^'Copper(I) Complexes: Self-Assembly of the Au_xCu_yClusters inside the [Au₃(diphosphine)₃]³⁺Triangles. Inorganic Chemistry, 2008, 47, 9478-9488.	1.9	81
6	Octanuclear gold(<scp>i</scp>) alkynyl-diphosphine clusters showing thermochromic luminescence. Chemical Communications, 2011, 47, 5533-5535.	2.2	78
7	Atomic-Level Structural and Electronic Properties of Hybrid Inorganicâ€“Organic ZnO:Hydroquinone Superlattices Fabricated by ALD/MLD. Journal of Physical Chemistry C, 2015, 119, 13105-13114.	1.5	75
8	Intensely Luminescent Alkynylâ^'Phosphine Gold(I)â^'Copper(I) Complexes: Synthesis, Characterization, Photophysical, and Computational Studies. Inorganic Chemistry, 2009, 48, 2094-2102.	1.9	73
9	Toward an Accurate Estimate of the Exfoliation Energy of Black Phosphorus: A Periodic Quantum Chemical Approach. Journal of Physical Chemistry Letters, 2016, 7, 131-136.	2.1	62
10	Synthesis, Characterization, Photophysical, and Theoretical Studies of Supramolecular Gold(I)â^'Silver(I) Alkynyl-Phosphine Complexes. Organometallics, 2009, 28, 1369-1376.	1.1	61
11	Halideâ€Directed Assembly of Multicomponent Systems: Highly Ordered Au^Iâ€“Ag^I Molecular Aggregates. Angewandte Chemie - International Edition, 2010, 49, 8864-8866.	7.2	60
12	An intensely and oxygen independent phosphorescent gold(i)â€“silver(i) complex: â€œtrappingâ€•an Au8Ag10 oligomer by two gold-alkynyl-diphosphine molecules. Chemical Communications, 2009, , 2860.	2.2	57
13	Inorganicâ€“organic superlattice thin films for thermoelectrics. Journal of Materials Chemistry C, 2015, 3, 10349-10361.	2.7	55
14	Harnessing Fluorescence versus Phosphorescence Branching Ratio in (Phenyl)_n-Bridged (n = 0â€“5) Bimetallic Au(I) Complexes. Journal of Physical Chemistry C, 2013, 117, 9623-9632.	1.5	53
15	Intensely Luminescent Homoleptic Alkynyl Decanuclear Gold(I) Clusters and Their Cationic Octanuclear Phosphine Derivatives. Inorganic Chemistry, 2012, 51, 7392-7403.	1.9	51
16	Thermoelectric Properties of p-Type Cu₂O, CuO, and NiO from Hybrid Density Functional Theory. Journal of Physical Chemistry C, 2018, 122, 15180-15189.	1.5	51
17	Reactions of Beryllium Halides in Liquid Ammonia: The Tetraammineberyllium Cation [Be(NH₃)₄]²⁺, its Hydrolysis Products, and the Action of Be²⁺ as a Fluorideâ€Ion Acceptor. Chemistry - A European Journal, 2012, 18, 2131-2142.	1.7	50
18	Rational reductive fusion of two heterometallic clusters: formation of a highly stable, intensely phosphorescent Auâ€“Ag aggregate and application in two-photon imaging in human mesenchymal stem cells. Chemical Communications, 2010, 46, 1440.	2.2	49

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19	Flexible Thermoelectric ZnOâ€“Organic Superlattices on Cotton Textile Substrates by ALD/MLD. Advanced Electronic Materials, 2017, 3, 1600459.	2.6	48
20	Highly Luminescent Octanuclear Au^Iâ€“Cu^I Clusters Adopting Two Structural Motifs: The Effect of Aliphatic Alkynyl Ligands. Chemistry - A European Journal, 2011, 17, 11456-11466.	1.7	47
21	Soluble Zintl Phases A₁₄ZnGe₁₆ (A = K, Rb) Featuring [(Î·³-Ge₄)Zn(Î·²-Ge₄)]^{6â€“} and [Ge₄]^{4â€“} Clusters and the Isolation of [(MesCu)₂(Î·³,Î·³-Ge₄)]^{4â€“}: The Missing Link in the Solution Chemistry of Tetrahedral Group 14 Element Zintl Clusters. Journal of the American Chemical Society, 2011, 133, 3450-3460.	6.6	47
22	A Facile Molecular Machine: Optically Triggered Counterion Migration by Charge Transfer of Linear Donorâ€“Acceptor Phosphonium Fluorophores. Angewandte Chemie - International Edition, 2019, 58, 13456-13465.	7.2	47
23	Icosahedral and Ring-Shaped Allotropes of Phosphorus. Chemistry - A European Journal, 2007, 13, 5232-5237.	1.7	46
24	Ab initio study of the lattice thermal conductivity of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cu</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">O</mml:mi></mml:mrow></mml:math> using the generalized gradient approximation and hybrid density functional methods. Physical Review B, 2017, 96, .	1.1	46
25	Tetragold(I) Complexes: Solution Isomerization and Tunable Solid-State Luminescence. Inorganic Chemistry, 2014, 53, 12720-12731.	1.9	45
26	Luminescent Triphosphine Cyanide d¹⁰ Metal Complexes. Inorganic Chemistry, 2016, 55, 2174-2184.	1.9	44
27	Remarkably Stable Icosahedral Fulleranes: C80H80 and C180H180. ChemPhysChem, 2006, 7, 1661-1663.	1.0	43
28	Icosahedral Polysilane Nanostructures. Journal of Physical Chemistry C, 2007, 111, 2545-2547.	1.5	41
29	Coinage Metal Complexes Supported by the Tri- and Tetraphosphine Ligands. Inorganic Chemistry, 2014, 53, 4705-4715.	1.9	39
30	Improvement of the Photophysical Performance of Platinumâ€Cyclometalated Complexes in Halogenâ€Bonded Adducts. Chemistry - A European Journal, 2018, 24, 11475-11484.	1.7	39
31	Bulk Synthesis and Structure of a Microcrystalline Allotrope of Germanium (m-allo-Ge). Chemistry of Materials, 2011, 23, 4578-4586.	3.2	38
32	Stepwise 1D Growth of Luminescent Au(I)â^'Ag(I) Phosphineâ^'Alkynyl Clusters: Synthesis, Photophysical, and Theoretical Studies. Inorganic Chemistry, 2011, 50, 2395-2403.	1.9	38
33	Assembly of the heterometallic Au(i)â€“M(i) (M = Cu, Ag) clusters containing the dialkyne-derived diphosphines: synthesis, luminescence and theoretical studies. Dalton Transactions, 2010, 39, 9022.	1.6	37
34	Electronic and Vibrational Properties of TiS₂, ZrS₂, and HfS₂: Periodic Trends Studied by Dispersion-Corrected Hybrid Density Functional Methods. Journal of Physical Chemistry C, 2018, 122, 26835-26844.	1.5	34
35	Synthesis, structure, and electronic properties of 4H-germanium. Journal of Materials Chemistry, 2010, 20, 1780.	6.7	33
36	Exfoliation Energy of Black Phosphorus Revisited: A Coupled Cluster Benchmark. Journal of Physical Chemistry Letters, 2017, 8, 1290-1294.	2.1	33

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37	Complexes featuring a linear [Nâ‰¡Uâ‰¡N] core isoelectronic to the uranyl cation. Nature Chemistry, 2020, 12, 962-967.	6.6	33
38	Ambipolar Phosphine Derivatives to Attain True Blue OLEDs with 6.5% EQE. ACS Applied Materials & Interfaces, 2016, 8, 10968-10976.	4.0	32
39	Synthesis, photophysical and theoretical studies of luminescent silver(i)â€“copper(i) alkynyl-diphosphine complexes. Dalton Transactions, 2010, 39, 2395.	1.6	31
40	Solidâ€State Luminescence of Auï£¿Cuï£¿Alkynyl Complexes Induced by Metallophilicityâ€Driven Aggregation. Chemistry - A European Journal, 2013, 19, 5104-5112.	1.7	31
41	Cyclometalated Platinum(II) Cyanometallates: Luminescent Blocks for Coordination Self-Assembly. Inorganic Chemistry, 2017, 56, 4459-4467.	1.9	31
42	On Copper(I) Fluorides, the Cuprophilic Interaction, the Preparation of Copper Nitride at Room Temperature, and the Formation Mechanism at Elevated Temperatures. Chemistry - A European Journal, 2015, 21, 3290-3303.	1.7	30
43	Heterometallic Clusterâ€Capped Tetrahedral Assemblies with Postsynthetic Modification of the Metal Cores. Angewandte Chemie - International Edition, 2018, 57, 14154-14158.	7.2	30
44	Structural Principles of Polyhedral Allotropes of Phosphorus. ChemPhysChem, 2008, 9, 2550-2558.	1.0	29
45	Twoâ€, Oneâ€, and Zeroâ€Dimensional Elemental Nanostructures Based on Ge₉â€Clusters. ChemPhysChem, 2010, 11, 1944-1950.	1.0	29
46	Thermoelectric applications for energy harvesting in domestic applications and micro-production units. Part I: Thermoelectric concepts, domestic boilers and biomass stoves. Renewable and Sustainable Energy Reviews, 2018, 98, 519-544.	8.2	28
47	Anionic Siliconoids from Zintl Phases: R₃Si₉^{â^’} with Six and R₂Si₉^{2â^’} with Seven Unsubstituted Exposed Silicon Cluster Atoms (R=Si(tBu)₂H). Chemistry - A European Journal, 2018, 24, 19171-19174.	1.7	28
48	Charged Si₉ Clusters in Neat Solids and the Detection of [H₂Si₉]^{2â^’} in Solution: A Combined NMR, Raman, Mass Spectrometric, and Quantum Chemical Investigation. Angewandte Chemie - International Edition, 2018, 57, 12950-12955.	7.2	28
49	Silver Alkynyl-Phosphine Clusters: An Electronic Effect of the Alkynes Defines Structural Diversity. Organometallics, 2017, 36, 480-489.	1.1	27
50	Learning experiences from digital laboratory safety training. Education for Chemical Engineers, 2021, 34, 87-93.	2.8	27
51	Reversible protonation of amine-functionalized luminescent Auâ€“Cu clusters: characterization, photophysical and theoretical studies. Dalton Transactions, 2010, 39, 2676.	1.6	26
52	Sky-Blue Luminescent Au^Iâ€“Ag^I Alkynyl-Phosphine Clusters. Inorganic Chemistry, 2013, 52, 3663-3673.	1.9	26
53	A Combined Metalâ€“Halide/Metal Flux Synthetic Route towards Typeâ€I Clathrates: Crystal Structures and Thermoelectric Properties of A₈Al₈Si₃₈ (A=K, Rb, and Cs). Chemistry - A European Journal, 2014, 20, 15077-15088.	1.7	26
54	Layer-by-layer design of nanostructured thermoelectrics: First-principles study of ZnO:organic superlattices fabricated by ALD/MLD. Nano Energy, 2016, 22, 338-348.	8.2	26

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55	Br₂F₇^{â¯} and Br₃F₁₀^{â¯}: peculiar anions showing Î¼₂- and Î¼₃-bridging F-atoms. Chemical Communications, 2016, 52, 12040-12043.	2.2	25
56	Harnessing Fluorescence versus Phosphorescence Ratio via Ancillary Ligand Fine-Tuned MLCT Contribution. Journal of Physical Chemistry C, 2016, 120, 12196-12206.	1.5	25
57	Boranylâ€Functionalized [Ge₉] Clusters: Providing the Idea of Intramolecular Ge/B Frustrated Lewis Pairs. Angewandte Chemie - International Edition, 2021, 60, 2648-2653.	7.2	25
58	Alkali Metals Extraction Reactions with the Silicides Li₁₅Si₄ and Li₃NaSi₆: Amorphous Si versus allo-Si. Chemistry of Materials, 2014, 26, 6603-6612.	3.2	23
59	Lithium Aryloxide Thin Films with Guestâ€Induced Structural Transformation by ALD/MLD. Chemistry - A European Journal, 2017, 23, 2988-2992.	1.7	23
60	RbBrF₄ Revisited. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 2593-2598.	0.6	22
61	Silicon clusters with six and seven unsubstituted vertices via a two-step reaction from elemental silicon. Chemical Science, 2019, 10, 9130-9139.	3.7	22
62	Structural Characteristics of Perhydrogenated Boron Nitride Fullerenes. Journal of Physical Chemistry C, 2008, 112, 10032-10037.	1.5	21
63	Synthesis, characterization and photophysical properties of PPh2â€“C2â€“(C6H4)nâ€“C2â€“PPh2based bimetallic Au(i) complexes. Dalton Transactions, 2012, 41, 937-945.	1.6	21
64	Luminescent Au^Iâ€“Cu^I Triphosphane Clusters That Contain Extended Linear Arylacetylenes. European Journal of Inorganic Chemistry, 2012, 2012, 4048-4056.	1.0	21
65	Ab initiolattice dynamical studies of silicon clathrate frameworks and their negative thermal expansion. Physical Review B, 2014, 89, .	1.1	21
66	Luminescent Gold(I) Alkynyl Clusters Stabilized by Flexible Diphosphine Ligands. Organometallics, 2014, 33, 2363-2371.	1.1	21
67	Copper-mediated phospha-annulation to attain water-soluble polycyclic luminophores. Chemical Communications, 2017, 53, 10954-10957.	2.2	21
68	Triphosphine-supported bimetallic Aulâ€“MI (M = Ag, Cu) alkynyl clusters. Dalton Transactions, 2014, 43, 3383.	1.6	20
69	Synthesis and Characterization of Barium Tetrafluoridobromate(III) Ba(BrF₄)₂. European Journal of Inorganic Chemistry, 2014, 2014, 6261-6267.	1.0	20
70	Structural and Electronic Trends among Group 15 Elemental Nanotubes. Journal of Physical Chemistry C, 2009, 113, 12220-12224.	1.5	19
71	Synthesis, electrochemical and theoretical studies of the Au(i)-Cu(i) heterometallic clusters bearing ferrocenyl groups. Dalton Transactions, 2009, , 8392.	1.6	19
72	[Ge₂]^{4â¯} Dumbbells with Very Short Geâ¯Ge Distances in the Zintl Phase Li₃NaGe₂: A Solidâ€State Equivalent to Molecular O₂. Angewandte Chemie - International Edition, 2016, 55, 1075-1079.	7.2	19

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73	MoF5 revisited. A comprehensive study of MoF5. Journal of Fluorine Chemistry, 2018, 211, 171-179.	0.9	19
74	Free and open source software for computational chemistry education. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2022, 12, .	6.2	19
75	Metallophilicity-assisted assembly of phosphine-based cage molecules. Dalton Transactions, 2014, 43, 6236.	1.6	18
76	Dibenzothiophene-platinated complexes: probing the effect of ancillary ligands on the photophysical performance. Dalton Transactions, 2017, 46, 3895-3905.	1.6	18
77	Oneâ€Dimensional Phosphorus Nanostructures: from Nanorings to Nanohelices. Chemistry - A European Journal, 2017, 23, 15884-15888.	1.7	18
78	Lewis Acidic Behavior of MoOF₄ towards the Alkali Metal Fluorides in Anhydrous Hydrogen Fluoride Solutions. European Journal of Inorganic Chemistry, 2019, 2019, 3672-3682.	1.0	18
79	Icosahedral and Ringâ€Shaped Allotropes of Arsenic. ChemPhysChem, 2007, 8, 2373-2378.	1.0	17
80	Structural and Electronic Characteristics of Perhydrogenated Boron Nitride Nanotubes. Journal of Physical Chemistry C, 2008, 112, 2418-2422.	1.5	17
81	Ab initiostudies on the lattice thermal conductivity of silicon clathrate frameworks II and VIII. Physical Review B, 2016, 93, .	1.1	17
82	Atomic/molecular layer deposition and electrochemical performance of dilithium 2-aminoterephthalate. Dalton Transactions, 2020, 49, 1591-1599.	1.6	17
83	Hydrogenated Monolayer Sheets of Group 13â^'15 Binary Compounds: Structural and Electronic Characteristics. Journal of Physical Chemistry C, 2009, 113, 229-234.	1.5	16
84	Modeling of Substitutional Defects in Magnesium Dichloride Polymerization Catalyst Support. Journal of Physical Chemistry C, 2012, 116, 7957-7961.	1.5	16
85	Luminescence Thermochromism of Gold(I) Phosphaneâ€“Iodide Complexes: A Rule or an Exception?. Chemistry - A European Journal, 2018, 24, 3021-3029.	1.7	16
86	Crystal Structure Prediction of Magnetic Transition-Metal Oxides by Using Evolutionary Algorithm and Hybrid DFT Methods. Journal of Physical Chemistry C, 2018, 122, 24949-24957.	1.5	16
87	Speciation of Be2+ in acidic liquid ammonia and formation of tetra- and octanuclear beryllium amido clusters. Chemical Science, 2020, 11, 5415-5422.	3.7	16
88	Key Role of Defects in Thermoelectric Performance of TiMSn (M = Ni, Pd, and Pt) Half-Heusler Alloys. Journal of Physical Chemistry C, 2020, 124, 14997-15006.	1.5	16
89	Cages and Needles of Group 13â€“15 Binary Hydrides. ChemPhysChem, 2007, 8, 62-63.	1.0	15
90	[Be(ND3)4]Cl2: Synthesis, Characterisation and Space-Group Determination Guided by Solid-State Quantum Chemical Calculations. European Journal of Inorganic Chemistry, 2013, 2013, 4184-4190.	1.0	15

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91	Slicing Diamondâ€"A Guide to Deriving sp³â€Si Allotropes. Chemistry - A European Journal, 2017, 23, 2734-2747.	1.7	15
92	Numerical study on the fluid dynamical aspects of atomic layer deposition process. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2018, 36, .	0.9	15
93	The Interhalogen Cations [Br₂F₅]⁺ and [Br₃F₈]⁺. Angewandte Chemie - International Edition, 2018, 57, 14640-14644.	7.2	15
94	On the exfoliation and anisotropic thermal expansion of black phosphorus. Chemical Communications, 2018, 54, 9793-9796.	2.2	15
95	Structural and Electronic Characteristics of Diamondoid Analogues of Group 14 Elements. Journal of Physical Chemistry C, 2008, 112, 16324-16330.	1.5	14
96	Structural Principles and Thermoelectric Properties of Polytypic Group 14 Clathrateâ€Ⅱ Frameworks. ChemPhysChem, 2013, 14, 1807-1817.	1.0	14
97	Semiconducting Clathrates Meet Gas Hydrates: Xe₂₄[Sn₁₃₆]. Chemistry - A European Journal, 2014, 20, 6693-6698.	1.7	14
98	Electronic band structures of pristine and chemically modified cellulose allomorphs. Carbohydrate Polymers, 2020, 243, 116440.	5.1	14
99	Borate Hydrides as a New Material Class: Structure, Computational Studies, and Spectroscopic Investigations on Sr₅(BO₃)₃H and Sr₅(¹¹BO₃)₃D. Chemistry - A European Journal, 2020, 26, 11742-11750.	1.7	14
100	Na₃SO₄Hâ€"The First Representative of the Material Class of Sulfate Hydrides. Angewandte Chemie - International Edition, 2021, 60, 5683-5687.	7.2	14
101	The Nature of Transannular Interactions in E4N4 and E82+ (E = S, Se). Journal of Chemical Theory and Computation, 2012, 8, 4249-4258.	2.3	13
102	Synthesis, characterization and photophysical properties of gold(I)â€"copper(I) alkynyl clusters with 1,4-bis(diphenylphosphino)butane, effect of the diphosphine ligand on luminescence characteristics. Journal of Organometallic Chemistry, 2013, 723, 65-71.	0.8	13
103	Lattice thermal conductivity of multilayer xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>TiS</mml:mi><mml:mn>2</mml:mn></mml:msub></m , <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>ZrS</mml:mi><mml:mn>2</mml:mn></mml:msub></m , and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>HfS</mml:mi><mml:mn>2</mml:mn></mml:msub></m	1.1	13
104	Structural Properties and Magnetic Ground States of 100 Binary d-Metal Oxides Studied by Hybrid Density Functional Methods. Molecules, 2022, 27, 874.	1.7	13
105	From Fulleranes and Icosahedral Diamondoids to Polyicosahedral Nanowires: Structural, Electronic, and Mechanical Characteristics. Journal of Physical Chemistry C, 2008, 112, 11122-11129.	1.5	12
106	Uranyl Halides from Liquid Ammonia: [UO₂(NH₃)₅]Cl₂Â·NH₃ and [UO₂F₂(NH₃)₃]₂Â·2NH₃ and Their Decomposition Products [UO₂Cl₂(NH₃)₃] and [UO₂F₂(NH₃)₃]. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2012, 638, 2044-2052.	0.6	12
107	Alkynyl triphosphine copper complexes: synthesis and photophysical studies. Dalton Transactions, 2015, 44, 13294-13304.	1.6	12
108	Charged Si₉ Clusters in Neat Solids and the Detection of [H₂Si₉]^{2â^'} in Solution: A Combined NMR, Raman, Mass Spectrometric, and Quantum Chemical Investigation. Angewandte Chemie, 2018, 130, 13132-13137.	1.6	12

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109	Supramolecular Construction of Cyanide-Bridged ReI Diimine Multichromophores. Inorganic Chemistry, 2019, 58, 1988-2000.	1.9	12
110	NOUF₆ Revisited: A Comprehensive Study of a Hexafluoridouranate(V) Salt. Chemistry - A European Journal, 2016, 22, 12145-12153.	1.7	11
111	The [U₂F₁₂]^{2â^'} Anion of Sr[U₂F₁₂]. Angewandte Chemie - International Edition, 2018, 57, 2914-2918.	7.2	11
112	Coexistence of Two Different Distorted Octahedral [MnF₆]^{3â^'} Sites in K₃[MnF₆]: Manifestation in Spectroscopy and Magnetism. Chemistry - A European Journal, 2021, 27, 9801-9813.	1.7	11
113	Structural Characteristics of Hydrocarbon Cages:â€‰ From Fulleranes to Icosahedral Diamondoids. Journal of Physical Chemistry C, 2007, 111, 18118-18126.	1.5	10
114	Mechanical Properties and Low Elastic Anisotropy of Semiconducting Group 14 Clathrate Frameworks. Journal of Physical Chemistry C, 2011, 115, 19925-19930.	1.5	10
115	Rhenium(I) Complexes with Alkynylphosphane Ligands: Structural, Photophysical, and Theoretical Studies. European Journal of Inorganic Chemistry, 2015, 2015, 864-875.	1.0	10
116	The reactions of TiCl₃, and of UF₄with TiCl₃in liquid ammonia: unusual coordination spheres in [Ti(NH₃)₈]Cl₃Â·6NH₃and [UF(NH₃)₈]Cl₃Â·3.5NH₃. Chemical Communications, 2015, 51, 11826-11829.	2.2	10
117	[Ge₂]^{4â^'} Dumbbells with Very Short Geâ^'Ge Distances in the Zintl Phase Li₃NaGe₂: A Solidâ€‐State Equivalent to Molecular O₂. Angewandte Chemie, 2016, 128, 1087-1091.	1.6	10
118	Lattice dynamical properties of antiferromagnetic MnO, CoO, and NiO, and the lattice thermal conductivity of NiO. Physical Review B, 2019, 100, .	1.1	10
119	Synthesis and Characterization of [Br 3][MF 6] (M=Sb, Ir), as well as Quantum Chemical Study of [Br 3] + Structure, Chemical Bonding, and Relativistic Effects Compared with [XBr 2] + (X=Br, I, At, Ts) and [TsZ 2] + (Z=F, Cl, Br, I, At, Ts). Chemistry - A European Journal, 2019, 25, 5793-5802.	1.7	10
120	An Unprecedented Fully H â€“ â€Substituted Phosphate Hydride Sr 5 (PO 4) 3 H Expanding the Apatite Family. European Journal of Inorganic Chemistry, 2019, 2019, 5073-5076.	1.0	10
121	Synthesis and Characterization of the Tetrafluoridochlorates(III) A [ClF 4] (A = K, Rb, Cs). European Journal of Inorganic Chemistry, 2020, 2020, 1319-1324.	1.0	10
122	Lattice thermal conductivity of NaCoO₂ and LiCoO₂ intercalation materials studied by hybrid density functional theory. Materials Research Express, 2020, 7, 075502.	0.8	10
123	Structural and electronic characteristics of perhydrogenated carbon nanotubes. Chemical Physics, 2007, 340, 120-126.	0.9	9
124	Structural Characteristics of Hydrogenated Carbon and Boron Nitride Nanotubes: Impact of Hï£¿H Interactions. ChemPhysChem, 2008, 9, 2390-2396.	1.0	9
125	Determination of Individual Gibbs Energies of Anion Transfer and Excess Gibbs Energies Using an Electrochemical Method Based on Insertion Electrochemistry of Solid Compounds. Journal of Chemical & Engineering Data, 2011, 56, 4577-4586.	1.0	9
126	Preparation of copperâ€“silicon dioxide nanoparticles with chemical vapor synthesis. Journal of Nanoparticle Research, 2011, 13, 3591-3598.	0.8	9

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127	Structural Characteristics of Graphaneâ€Type C and BN Nanostructures by Periodic Local MP2 Approach. ChemPhysChem, 2012, 13, 2361-2367.	1.0	9
128	Identification of mixed bromidochloridotellurate anions in disordered crystal structures of (bdmim)2[TeX2Y4] (X, Y=Br, Cl; bdmim=1-butyl-2,3-dimethylimidazolium) by combined application of Raman spectroscopy and solid-state DFT calculations. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 117, 728-738.	2.0	9
129	Syntheses and Crystal Structures of Sodium Hydrogen Fluorides NaFÂ·nHF (n= 2, 3, 4). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 1436-1443.	0.6	9
130	A 1D Coordination Polymer of UF₅ with HCN as a Ligand. Chemistry - A European Journal, 2017, 23, 291-295.	1.7	9
131	Die Interhalogenkationen [Br₂F₅]⁺ und [Br₃F₈]⁺. Angewandte Chemie, 2018, 130, 14850-14855.	1.6	9
132	A Facile Molecular Machine: Optically Triggered Counterion Migration by Charge Transfer of Linear Donorâ€Ïâ€Acceptor Phosphonium Fluorophores. Angewandte Chemie, 2019, 131, 13590-13599.	1.6	9
133	The Crystal Structures of Î±â€•and Î²â€Ÿ₂ Revisited. Chemistry - A European Journal, 2019, 25, 3310-3317.	1.7	9
134	Ab Initio Study on Adsorption of Hydrated Na+and Cu+Cations on the Cu(111) Surface. Journal of Physical Chemistry B, 2005, 109, 23983-23992.	1.2	8
135	Ab Initio Study on the Adsorption of Hydrated Na+and Ag+Cations on a Ag(111) Surface. Journal of Physical Chemistry B, 2006, 110, 14379-14385.	1.2	8
136	Structural Trends Among Nanotubes of Group 13â^'15 Binary Hydrides. Journal of Physical Chemistry C, 2009, 113, 10065-10069.	1.5	8
137	Harvesting Fluorescence from Efficient T_k â†' S_j (j, k) Tj ETQq1 1 0.784314 rgB Chemistry C, 2013, 117, 20494-20499.	1.5	8
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